

OPTICAL GYRO

Publication number: JP2000230831

Publication date: 2000-08-22

Inventor: MIZUTANI NATSUHIKO; NUMAI TAKAAKI

Applicant: CANON KK

Classification:

- International: **G01C19/68; H01S3/083; G01C19/64; H01S3/081;**
(IPC1-7): G01C19/68; H01S3/083

- european:

Application number: JP19990033277 19990210

Priority number(s): JP19990033277 19990210

[Report a data error here](#)

Abstract of JP2000230831

PROBLEM TO BE SOLVED: To provide a ring laser gyro capable of operation at a low threshold value by detecting a rotating direction without applying mechanical fine vibration (dither), suppressing generation of lock-in phenomenon by restraining backward scattering in a light leading-out part, and further restraining loss in the light leading-out part. **SOLUTION:** This optical gyro is provided with a semiconductor ring laser 11 having a carrier injection means, a ring-shaped resonator, and a light output means outputting a part of clockwise light and a part of counterclockwise light, an optical element 13 converting the propagation direction of at least one out of the clockwise light 18 and the counterclockwise light 19 outputted from a ring laser, and a plurality of photo detecting elements 14, 15 arranged at a position where the clockwise light and the counterclockwise light overlap with each other.

